



Workshop to support the IODP Drilling Proposal Paleoceanography of the Brazilian Equatorial Margin (BEM)

4-6 February 2014

Maresias, São Paulo, Brazil

Maresias Beach Hotel, <http://www.maresiashotel.com.br>

Steering committee

Luigi Jovane (Instituto Oceanografico da Universidade de Sao Paulo, Brazil) Local host

Heath Mills (University of Houston Clear Lake, USA)

Dilce F. Rossetti (National Institute, Brazil)

Helmut Weissert (ETH Zurich, Switzerland)

Paul A. Wilson (University of Southampton, UK)

Jason P. Morgan (Royal Holloway of London University, UK)

Paola Vannucchi (Royal Holloway of London University, UK)

James C. Zachos (Univ. of California, Santa Cruz, USA)

The Brazilian Equatorial Margin (BEM) is a passive, stable margin at equatorial latitudes characterized by continuous sedimentary sequences divided among a series of basins. These basins contain a unique record of regional tectonic, biotic, and climatic events from the end of the early Cretaceous to present. This workshop aims to build community support and to develop an integrated drilling strategy to obtain high-quality tectono-sedimentary and paleoceanographic records for the Mesozoic and Cenozoic BEM to improve our knowledge of the response of the regional physical and biological systems to (a) the opening and expansion of the South Atlantic, and (b) long- and short-term changes in global climate, particularly the extreme greenhouse events, and Cenozoic cooling. More specifically, by integrating coring data with models, the results of drilling will offer new insights into: (1) regional sea level response to glacioeustatic and tecto-sedimentary changes along the BEM; (2) evolution of tropical marine climate (sea surface temperature and salinity) to elevated levels of atmospheric CO₂; (3) regional circulation (i.e., current intensity) and sea level response to opening of Southern ocean gateways, Eocene cooling and the appearance and expansion of continental ice-sheets; (4) the evolution of tropical marine ecosystems, productivity, and carbon fluxes; and (5) the evolution of the equatorial landscape and sediment fluxes to the margin. In this workshop, we solicit active and relevant proponent investigating potential drill sites and IODP proposals that seek to enhance our understanding of BEM tectonic and environmental changes and other topics on all temporal and spatial scales.

***Pre-registration (name, affiliation and reason of interest) until 7 of December 2013
sending an email to: jovane@usp.br***

The cost of the workshop is ~800US\$ including transfer from GRU international airport, food and hotel. We are looking for financial support from various funding agencies to cut those expenses.